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SECTION 1  
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PRODUCT IDENTIFIER            HD 7214            ICI COLORANT-HD PHTHALO BLUE (E)  
DATE OF PREPARATION        JUNE 28, 2002  
PRODUCT USE                PROTECTIVE COATING

MANUFACTURED BY:    ICI PAINTS NORTH AMERICA, 925 EUCLID AVENUE,  
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MSDS PREPARED BY:    PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT  
                         ICI PAINTS NORTH AMERICA

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS  
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	INGREDIENT	WT. %:
CHEMICAL NAME	1,2-ETHANEDIOL	20-30
COMMON NAME :	ETHYLENE GLYCOL	
CAS NUMBER:	107-21-1	
CHEMICAL NAME	ETHANOL, 2,2'-IMINOBIS	.1-1.0
COMMON NAME :	DIETHANOLAMINE	
CAS NUMBER:	111-42-2	
CHEMICAL NAME	POLY(OXY-1,2-ETHANEDIYL, ALPHA-4-NONYLPHENYL) -	5-10
	OMEGA-HYDROXY-, BRANCHED	
COMMON NAME :	GLYCOL ETHER	
CAS NUMBER:	127087-87-0	
CHEMICAL NAME	KAOLIN	30-40
COMMON NAME :	CLAY	
CAS NUMBER:	1332-58-7	
CHEMICAL NAME	9-OCTADECENOIC ACID, 12-HYDROXY-, METHYL	1-5
	ESTER, (R-(Z)) -	
COMMON NAME :	MALEIC RICINOLEATE POLYESTER PLASTICIZER	
CAS NUMBER:	141-24-2	
CHEMICAL NAME	COPPER, {29H, 31H-PHTHALOCYANINATO(2-)N29,N30,N31,	5-10

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS  
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N32}-, (SP-4-1)-  
COMMON NAME : PHTHALOCYANINE BLUE PIGMENT  
CAS NUMBER: 147-14-8

CHEMICAL NAME WATER 10-20  
COMMON NAME : WATER  
CAS NUMBER: 7732-18-5

CHEMICAL NAME LECITHINS 1-5  
COMMON NAME : LECITHIN  
CAS NUMBER: 8002-43-5

CHEMICAL NAME 2-PYRROLIDINONE, 1-METHYL- 1-5  
COMMON NAME : N-METHYLPYRROLIDONE  
CAS NUMBER: 872-50-4

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SECTION 3: HAZARDS IDENTIFICATION  
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PRIMARY ROUTE(S) OF EXPOSURE  
INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, NAUSEA, CENTRAL NERVOUS SYSTEM DEPRESSION, CONFUSION, BLOOD ABNORMALITIES, KIDNEY DAMAGE, LOSS OF CONSCIOUSNESS.

SKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING. POSSIBLE SENSITIZATION TO SKIN.

EYE CONTACT IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, TEARING OF EYES, REDNESS OF EYES.

INGESTION INGESTION MAY CAUSE DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, SEVERE ABDOMINAL PAIN, APATHY, CENTRAL NERVOUS SYSTEM DEPRESSION, RESPIRATORY PROBLEMS, INTOXICATION, KIDNEY DAMAGE, PULMONARY EDEMA, LOSS OF CONSCIOUSNESS, ACUTE POISONING, RESPIRATORY FAILURE, CARDIAC FAILURE, BRAIN DAMAGE.

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**SECTION 3: HAZARDS IDENTIFICATION**

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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE  
EYE, SKIN, RESPIRATORY DISORDERS  
LUNG DISORDERS  
KIDNEY DISORDERS

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**SECTION 4: FIRST-AID MEASURES**

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**INHALATION** REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING.  
GET EMERGENCY MEDICAL ATTENTION.  
HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY.

**SKIN CONTACT** WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE NEEDED. REMOVE CONTAMINATED CLOTHING.  
WASH CONTAMINATED CLOTHING BEFORE RE-USE.  
IF IRRITATION OCCURS, CONSULT A PHYSICIAN.

**EYE CONTACT** FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.

**INGESTION** IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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FLASH POINT (SETA)	NONE	LOWER EXPLOSIVE LIMIT	NOT AVAILABLE
		UPPER EXPLOSIVE LIMIT	15.3 (%)

**FIRE EXTINGUISHING MEDIA**  
DRY CHEMICAL OR FOAM  
WATER FOG.  
CARBON DIOXIDE.

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## SECTION 5: FIRE-FIGHTING MEASURES

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### UNUSUAL FIRE AND EXPLOSION HAZARDS

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK.  
CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.

### FIRE FIGHTING PROCEDURES

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS.  
FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

### HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, PHOSPHOROUS, SMOKE AND SOOT.

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## SECTION 6 ACCIDENTAL RELEASE MEASURES

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### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.

ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. PLACE COLLECTED MATERIAL IN PROPER CONTAINER.

COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.

LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE

MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.

SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

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SECTION 7 HANDLING AND STORAGE  
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## HANDLING AND STORAGE

STORE BELOW 100F (38C). KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP FROM FREEZING.

OTHER PRECAUTIONS USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
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COMMON NAME : ETHYLENE GLYCOL

CAS NUMBER: 107-21-1

ACGIH(STEL): C 100 MG/M3

COMMON NAME : DIETHANOLAMINE

CAS NUMBER: 111-42-2

ACGIH(TWA): SKIN 2 MG/M3

COMMON NAME : CLAY

CAS NUMBER: 1332-58-7

ACGIH(TWA): 2 MG/M3 OSHA(TWA): 5 MG/M3

COMMON NAME : PHTHALOCYANINE BLUE PIGMENT

CAS NUMBER: 147-14-8

ACGIH(TWA): 10 MG/M3 OSHA(TWA): 05 MG/M3

## RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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SELECTION OF RESPIRATORS (CANADIAN Z94.4).

VENTILATION PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS.

**PERSONAL PROTECTIVE EQUIPMENT**

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES.  
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, BOOTS.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.395
BOILING RANGE:	212-500F/ -260C	WEIGHT PER GALLON:	11.62/ 13.96IMP
%VOLATILE BY VOLUME:	59.74		
PHYSICAL STATE:	LIQUID	APPEARANCE	BLUE
SOLUBILITY IN WATER:	NOT AVAILABLE	PH:	NOT AVAILABLE

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**SECTION 10: STABILITY AND REACTIVITY**

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**UNDER NORMAL CONDITIONS**

STABLE  
SEE SECTION 5 FIRE FIGHTING MEASURES

**MATERIALS TO AVOID**

OXIDIZERS, REDUCING AGENTS.  
ALKALIS  
MINERAL ACIDS.  
STYRENE MONOMER

**CONDITIONS TO AVOID**

ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT,  
CONTAMINATION, FREEZING, OPEN FLAME.

**HAZARDOUS POLYMERIZATION**

WILL NOT OCCUR

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SECTION 11: TOXICOLOGICAL INFORMATION  
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COMMON NAME : ETHYLENE GLYCOL

CAS NUMBER: 107-21-1

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 4700.00 MG/KG ORL RAT

LD50: 5500.00 MG/KG ORL MOU

COMMON NAME : DIETHANOLAMINE

CAS NUMBER: 111-42-2

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 12.20 GM/KG SKN RBT

LD50: 710.00 MG/KG ORL RAT

COMMON NAME : GLYCOL ETHER

CAS NUMBER: 127087-87-0

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : CLAY

CAS NUMBER: 1332-58-7

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : MALEIC RICINOLEATE POLYESTER PLASTICIZER

CAS NUMBER: 141-24-2

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : PHTHALOCYANINE BLUE PIGMENT

CAS NUMBER: 147-14-8

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50:&gt;5000.00 MG/KG ORL RAT

COMMON NAME : LECITHIN

CAS NUMBER: 8002-43-5

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : N-METHYLPYRROLIDONE

CAS NUMBER: 872-50-4

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 3914.00 MG/KG ORL RAT

LD50: 8.00 GM/KG SKN RBT

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SECTION 11: TOXICOLOGICAL INFORMATION  
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## SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.

## CARCINOGENICITY

NOTICE: IN A 2 YEAR STUDY CONDUCTED BY THE NATIONAL TOXICOLOGY PROGRAM (NTP), THERE WAS CLEAR EVIDENCE OF CARCINOGENIC ACTIVITY IN MALE AND FEMALE MICE DERMALLY EXPOSED TO DIETHANOLAMINE BASED ON DEVELOPMENT OF LIVER AND KIDNEY TUMORS. THERE WAS NO EVIDENCE OF CARCINOGENICITY IN EITHER MALE OR FEMALE RATS. THE RELEVANCE OF THIS STUDY TO HUMANS IS NOT KNOWN.

## REPRODUCTIVE EFFECTS

NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

## MUTAGENICITY

NO MUTAGENIC EFFECTS ARE ANTICIPATED

## TERATOGENICITY

SOME LABORATORY TEST RESULTS HAVE SHOWN ETHYLENE GLYCOL TO BE AN ANIMAL TERATOGEN.

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SECTION 12: ECOLOGICAL INFORMATION  
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NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

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SECTION 13: DISPOSAL CONSIDERATIONS  
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## WASTE DISPOSAL

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. AVOID DISCHARGE TO NATURAL WATERS.

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SECTION 14: TRANSPORT INFORMATION  
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## DOT

PAINT \*\* PROTECT FROM FREEZING \*\*

## IMDG

NOT AVAILABLE

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SECTION 14: TRANSPORT INFORMATION  
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IATA NOT AVAILABLE

TDG NOT AVAILABLE

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SECTION 15: REGULATORY INFORMATION  
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	SARA 302	SARA 313	CERCLA 302.4	HAZ AIR POLLUTANT	MARINE POLTNT
CAS NUMBER: 107-21-1	NO	YES	YES	YES	NO
COMMON NAME : ETHYLENE GLYCOL					
CAS NUMBER: 111-42-2	NO	YES	NO	YES	NO
COMMON NAME : DIETHANOLAMINE					
CAS NUMBER: 127087-87-0	NO	YES	NO	YES	NO
COMMON NAME : GLYCOL ETHER					
CAS NUMBER: 872-50-4	NO	YES	NO	NO	NO
COMMON NAME : N-METHYLPYRROLIDONE					

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY.  
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

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SECTION 16: OTHER INFORMATION  
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THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF

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SECTION 16: OTHER INFORMATION  
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YOUR EMPLOYEES AND USERS OF THIS MATERIAL.  
COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD  
29CFR1910.1200.